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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/805,299	5,299 03/12/2001		Virginia L. Robbins	42390P10446	2107
8791	7590	12/01/2006	·	EXAMINER	
		OFF TAYLOR &	KLIMACH, PAULA W		
12400 WILS SEVENTH		ULEVARD	ART UNIT	PAPER NUMBER	
		90025-1030	2135	L	

DATE MAILED: 12/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/805,299	ROBBINS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Paula W. Klimach	2135					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status	•						
1) Responsive to communication(s) filed on 14 Se	entember 2006						
·— · · · · · · · · · · · · · · · · · ·	action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under E	x parte quayre, 1000 0.5. 11, 10						
Disposition of Claims							
4)⊠ Claim(s) <u>1-3,7-11 and 17-21</u> is/are pending in t	he application.						
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-3, 7-11, 17-21</u> is/are rejected.	— · · · — · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers		• .					
·	_						
9) The specification is objected to by the Examine		Evaminer					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the Ex	arniner. Note the attached Office	Action of form FTO-132.					
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive 1 (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal F						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application					

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DETAILED ACTION

Response to Amendment

This office action is in response to amendment filed on 09/14/06. The amendment filed on 09/14/06 have been entered and made of record. Therefore, presently pending claims are 1-3, 7-11 and 17-21.

Response to Arguments

Applicant's arguments filed 09/14/06 have been fully considered but they are not persuasive because of following reasons.

Applicant argued that Leppek simply uses decryption operators from a decryption operator database to decrypt the stream that was virtually encrypted with a sequence of encryptor operators. The applicant argues further that the decryption process does not change that is that the operators change, but the same process encrypts/decrypts content. This is not found persuasive. The operators that change in the system of Leppek make up the process for encryption and decryption. The operators make up the steps for the process. The operator database corresponds to the main decryption section the is used to make the decryption process.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-3, 7-11, and 17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slavin (5,956,407) in view of Leppek (5,933,501) and further in view of Kousa (4,797,672), and further in view of the article by Tsuji (An ID-based Cryptosystem Based on the Discrete Logarithm Problem).

In reference to claim 1, 7, 17, and 21, regarding the decryption generating section coupled to the key generating section and a main decryption section, the decryption generating section generating a plurality of individual decryption processes based on the main decryption section and the plurality of individual keys. The monitors disclosed by Slavin generate a plurality of individual decryption processes that are based on the main decryption section. The individual processes use the values of p2 and or q2 that were provided to the monitor to decrypt and therefore eavesdrop on the transmitted information. The receiver calculates and publishes the different decryption processes En used by the monitor, which are based on the main decryption section's public and private keys (Fig. 2 and Fig. 3).

Regarding each of the plurality of individual decryption processes being different from one another, although Slavin discloses a system that creates a decoding key as a function of the prime factors used to create the encoding key (column 6 lines 31-34), Slavin does not expressly disclose individual decryption processes that are different form one another:

Leppek disclose a system that combines a selected plurality of different encryption operators stored in an encryption operator database into a compound sequence of encryption operators (abstract). Therefore Leppek discloses a system that generates a plurality of individual decryption processes wherein each decryption process is different from one another (column 4 lines 33-67). The system uses one key in conjunction with only a one of the plurality of

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decryption processes (Fig. 3). An encryption generating section coupled to the key generating section and a main encryption section, the encryption generation generating section to generate a plurality of individual encryption process based on the main encryption section and the plurality of individual keys, each of said plurality of individual encryption process is different from one another and each different individual encryption process to encrypt a content differently from one another (part 140 and 170 Fig. 2); a main decryption section, the main decryption section using the main key to decrypt content, and one of the plurality of encryption process can encrypt content to be decrypted by the main decryption section and the main key (part 100 Fig. 2 and Fig. 3).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to add a system for creating a plurality of encryption sequences as in the system of Leppek to system of creating a plurality of keys of Slavin. One of ordinary skill in the art would have been motivated to do this because it would scramble the data stream having no readily discernible encryption 'footprint' (column 2 lines 25-38).

Regarding the main encryption section, the main encryption section using the main key to encrypt content. The sender encrypts the message using Eun.

Slavin does not disclose the different parts disclosed above as belonging in the same circuit. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to create a system that receives and transmits therefore including all the parts as disclosed above in the same circuit. One of ordinary skill in the art would have been motivated to do this because it would secure the transmitted information as well as the information that is received by synchronizing the distribution of key.

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Although Slavin discloses a key generation section that generates section to generate a plurality of individual keys based on a main key each based on a main key and different from one another, Slavin does not disclose only one of the plurality of individual keys is used in the decryption processes.

Kousa discloses a system that generates a plurality of keys from a master key (seed) wherein only one of the plurality of individual keys is used in conjunction with only one decryption processes (column 4 lines 30-53).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to generate a plurality of keys from a master key and use it with one decryption process as in Kousa in the system of Slavin. One of ordinary skill in the art would have been motivated to do this because it provides increased security from unauthorized access by others (Kousa column 6 lines 60-67).

Neither Slavin, Leppek, or Kousa do not discloses plurality of individual keys is customized for a specific user.

Tsuji discloses an Id-Based Crytposystem Based on the discrete logarithm problem (title). The keys generated in the system of Tsuji are customized for a specific user (page 468 column 2).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to create Id-based keys such as Tsuji in the system of Leppek. One of ordinary skill in the art would have been motivated to do this because the receiver can identify the sender (Tsuji page 471 column 1).

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In reference to claims 2, 8, 18, wherein each of the plurality of individual decryption processes each use a selected one of the plurality of individual keys. Fig. 2 discloses the monitor only being provided with p2, which is used to calculate the key and then decrypt that data.

In reference to claims 3, 9, wherein the plurality of individual decryption processes decrypt the content from the cypher-content by using the plurality of individual keys. Column 4 line 40 discloses providing the monitor with p2 and q2. Since two keys that depend on the main key are provided, this number could be increased to more.

In reference to claims 10 and 19, wherein the encrypting generates cipher content from the content (Fig. 5).

In reference to claims 11 and 20, wherein the plurality of individual decryption processes decrypt the content form the cipher-content by using the plurality of individual keys (Fig. 5 section describing the activity of the monitor).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paula W. Klimach whose telephone number is (571) 272-3854. The examiner can normally be reached on Mon to Thr 9:30 a.m to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PWK

Wednesday, November 22, 2006

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